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*Attorney for Intervenor-Defendant
Oregon Alliance for Gun Safety*

IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF OREGON
PENDLETON DIVISION

OREGON FIREARMS FEDERATION,
INC., et al.,

Plaintiffs,

v.

KATE BROWN, et al.,

Defendants.

MARK FITZ, et al.,

Plaintiffs,

v.

ELLEN F. ROSENBLUM, et al.,

Defendants.

KATERINA B. EYRE, et al.,

Plaintiffs,

v.

ELLEN F. ROSENBLUM, et al.,

Defendants.

DANIEL AZZOPARDI, et al.,

Plaintiffs,

v.

ELLEN F. ROSENBLUM, et al.,

Defendants.

Case No. 2:22-cv-01815-IM (*Lead Case*)
Case No. 3:22-cv-01859-IM (*Trailing Case*)
Case No. 3:22-cv-01862-IM (*Trailing Case*)
Case No. 3:22-cv-01869-IM (*Trailing Case*)

CONSOLIDATED CASES

DECLARATION OF DR. MACKENZIE
COOK IN SUPPORT OF OREGON
ALLIANCE FOR GUN SAFETY'S
RESPONSE TO PLAINTIFFS' MOTIONS
FOR PRELIMINARY INJUNCTION

I, Dr. Mackenzie Cook, declare as follows:

1. I am a trauma surgeon at Oregon Health and Science University (“OHSU”) Hospital in Portland, OR. I am over the age of eighteen, competent to testify, and make this declaration based on my personal knowledge and expert review of the materials cited herein.

2. I attended medical school at Duke University before doing my residency in general surgery at OHSU. After residency, I completed a surgical critical care fellowship at Harborview Medical Center in Seattle, Washington. I returned to OHSU in 2017. Since then, I have worked as a trauma surgeon within the division of Trauma, Critical Care and Acute Care Surgery, as well as an assistant professor. A copy of my CV is attached as **Exhibit A**.

3. OHSU is home to one of the two Level 1 trauma centers in Oregon, and we treat more than 4,000 trauma patients a year.

4. As part of my work, I frequently treat gunshot victims. There is some seasonality to gunshots wounds, and we generally see more victims of all categories of violent crime in the summer than we do in the winter. But I would estimate that, on average, there is at least one patient with a gunshot wound every time I am on call.

5. The Oregon Alliance for Gun Safety asked me to share my perspective as a medical expert on the impact that multiple gunshot wounds can have on the patients that I treat in Portland. It is my hope that my testimony can lead to fewer deaths from gun violence in our state. I am not being compensated for my time or expert services.

6. It may seem obvious that victims with more gunshot wounds are more likely to die or face serious health consequences. But it is not just a linear relationship, with each bullet wound increasing the risk of death or serious harm by a comparable degree. For multiple reasons, the risks to the patient increase with each bullet wound.

7. The more times a victim has been shot, the more likely it is that a critical structure is struck. While even a single bullet wound can be fatal, gunshots to the chest, abdomen and head are often the most serious wounds. They are the most likely to lead rapidly to death, sometimes before the patient arrives at the hospital. My experience with victims of multiple gunshot wounds to the chest and abdomen is that there are often multiple, simultaneous injuries—each of which is life threatening.

8. The presence of multiple bullet wounds complicates treatment decisions. At its core, the treatment of a patient with multiple gunshot wounds is a race. A race to control bleeding and provide blood transfusions faster than the patient is losing blood from the bullet related injuries. The more injuries there are, the more organ spaces they are spread across (e.g., chest, abdomen, pelvis, legs, arms), the harder it is to win that race. Multiple gun-shot wound often require what we call a “damage control” approach to management where we initially stop the bleeding and then pause the operation—often for days—to allow the patient to stabilize in the intensive care unit before returning for reconstruction of the injuries.

9. Many patients who are shot do not die. Patients who survive, however, have a very high risk of developing post-traumatic stress disorder (PTSD) and chronic pain. The risk of PTSD may not be directly related to the severity of injury, and can be very debilitating. If their injuries are severe, their quality of life may be much less than before the injury. I have personally seen bullet wounds results in lower extremity paralysis, disfiguring facial wounds, loss of the use of a dominant hand, and intestinal injuries so severe that a life-long colostomy was required.

10. A separate but related challenge can occur when a hospital receives multiple victims with gunshot wounds at the same time. Even at a Level 1 trauma center like OHSU, we have a limit to the available staff and resources on short notice. An influx of patients with gunshot wounds, as

would happen in the event of a mass shooting, or several shootings in one night, would severely strain our resources. We would be forced to triage patients and a mass casualty incident such as this would also significantly impact our ability to provide care to other patients in the hospital.

11. We also could be affected by a mass shooting outside of the Portland area. As one of the largest trauma centers in the state, we frequently receive patients from smaller hospitals. If a smaller hospital were overwhelmed as the result of a mass shooting, we would be called upon to help manage the load of patients, in conjunction with the entire Oregon trauma system. A large shooting event in a rural setting would likely have a very high mortality rate as the resources of a smaller hospital can be quickly overwhelmed and the time needed for transport to a larger hospital system makes it harder to win the race against blood loss.

12. Gunshot wounds are not limited to interpersonal violence. I frequently see self-inflicted gunshot wounds. Many times these are people who shoot themselves in the head in an attempt to commit suicide. While suicide is very complex and I am not an expert in mental health, the injuries I see as a result of self-inflicted gunshot wounds to the head are devastating. Patients may or may not die as a result, but severe facial injuries and long term neurological impairments are common. Access to firearms in a moment of mental health crisis is a contributing factor to the severity of these injuries.

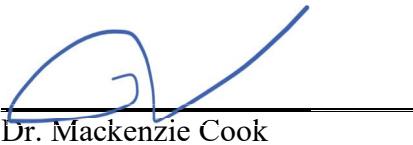
13. In recent years, doctors in trauma centers across the country have been troubled by what appears to be an increase in the number and severity of gunshot victims that we treat. Unfortunately, our suspicions have largely been confirmed by our colleagues that have analyzed the data.¹ Locally, we have also seen a dramatic increase in the number of shooting incidents in Portland

¹ See, e.g., B. Kalesan, et al., *A multi-decade joinpoint analysis of firearm injury severity*, 3 Trauma Surgery & Acute Care Open 1 (2018), <https://tsaco.bmjjournals.com/content/3/1/e000139>; H.M. Bailey, et al., *Changes in patterns of mortality rates and years of life lost due to firearms in the United*

in just the past few years, which has led to an increase in the number of patients we receive with gunshot wounds.²

I declare under penalty of perjury that the foregoing is true and correct.

EXECUTED this 3 day of February, 2023 at Portland, Oregon.



Dr. Mackenzie Cook

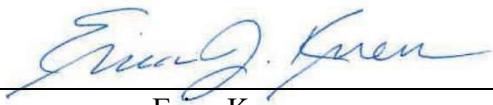
States, 1999 to 2016: A joinpoint analysis, PLoS One 14(11) (Nov. 22, 2019), <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0225223>; P.J. Brantingham, et al., *Assessment of Case Fatality Rates and Overall Prevalence of Firearm Violence in California, 2005-2019*, JAMA Netw Open (Jan. 28, 2022), <https://pubmed.ncbi.nlm.nih.gov/35089356/>.

² City of Portland Police Bureau, Shooting Incident Statistics, <https://www.portlandoregon.gov/police/81203> (last updated 1/31/2023).

CERTIFICATE OF SERVICE

I hereby certify that on this 6th day of February, 2023, I electronically filed the foregoing document with the Clerk of the United States District Court using the CM/ECF system which will send notification of such filing to all parties who are registered with the CM/ECF system.

DATED this 6th day of February, 2023.



Erica Knerr

EXHIBIT A

CURRICULUM VITAE
OREGON HEALTH & SCIENCE UNIVERSITY

NAME Mackenzie R. Cook MD, FACS

DATE January 2023

PRESENT POSITION AND ADDRESS

Rank: Assistant Professor
Division: Division of Trauma, Critical Care & Acute Care Surgery, Department of Surgery
Address: 3181 SW Sam Jackson Park Road, Portland OR, 97239
E-Mail: cookmac@ohsu.edu

II. EDUCATION

Undergraduate and Graduate:

August 2001 – May 2005 Bachelor of Arts with Distinction in All Subjects
Phi Beta Kappa
Cornell University
Ithaca, New York

Postgraduate

August 2006 – May 2010 Doctor of Medicine
Alpha Omega Alpha
Duke University
Durham, North Carolina

May 2008 – May 2009 Howard Hughes Medical Institute Research Fellow
Endocrine Surgery Research Laboratory
University of Wisconsin
Madison, Wisconsin

July 2010 – June 2016 General Surgery Internship and Residency
Oregon Health & Science University
Portland, Oregon

July 2012 – July 2013 Post-Doctoral Trauma Research
Trauma Research Institute of Oregon
Oregon Health & Science
Portland, Oregon

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August 2016 – July 2017 Surgical Critical Fellowship
Harborview Medical Center
University of Washington
Seattle, Washington

Additional Training in Teaching and Education Scholarship
May 2014 Residents as Teachers and Leaders
American College of Surgeons
Chicago, Illinois

April 2014 – June 2016 Effective Clinical Teaching
Human Investigations Program
Oregon Health & Science University
Portland, Oregon

November 2019 Stanford Faculty Development – Clinical Teaching Series
Education Scholars Program
Oregon Health & Science University
Portland, Oregon

September 2019 – June 2020 Education Scholars Program
Oregon Health & Science University
Portland, Oregon

Board Certification:

American Board of Surgery (#062548), General Surgery. 3/27/2017 - 3/27/2027

American Board of Surgery (#004149), Surgical Critical Care. 9/11/2017 - 12/31/2028

Certifications:

2010 – Present	Advanced Cardiac Life Support eCard Code: 215402951190 Expires 6/2023
2011 – Present	Advanced Trauma Life Support, Provider ATLS ID: 462598
2016 – Present	Advanced Trauma Life Support, Instructor
2018 – Present	Advanced Trauma Life Support, Course Director
2018 – Present	Fundamentals of Critical Care Support, Instructor
2019 – Present	Rural Trauma Team Development Course, Instructor
2019 – Present	Stop the Bleed, Instructor
2023 – Present	Peer Supporter, Oregon Health & Science University

Medical Licenses:

Washington Medical License: #MD-60642364
Oregon Medical License: #MD-184572
Alaska Medical License: #MD-146505
Montana Medical License: #MED-80585

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Idaho Medical License: #M-15044

III. PROFESSIONAL EXPERIENCE

Academic:

November 2017 – Present Assistant Professor of Surgery
Division of Trauma, Critical Care and Acute Care Surgery
Department of Surgery
Oregon Health & Science University

Administrative:

July 2018 – Present Surgical Core Clinical Experience Director (Surgical Clerkship)
School of Medicine
Oregon Health & Science University

July 2018 – Present Medical Student TSICU Sub-Internship Clerkship Director
School of Medicine
Oregon Health & Science University

October 2020 – Present Assistant Trauma Medical Director
Oregon Health & Science University

May 2019 – December 2021 Medical Student Transition to Surgical Internship Clerkship
Director
School of Medicine
Oregon Health & Science University

IV. SCHOLARSHIP

Areas of Interest: Long-term outcomes after injury
Surgical palliative care
Surgical education – entrustment and autonomy

Grants and Contracts:State and Local:

Completed

A Wider View: Understanding and Predicting the Hidden Mortality of Trauma Patients
after Discharge

Source: Medical Research Foundation of Oregon

Amount: \$40,000

Role: Primary Investigator

Time: June 1, 2019 – June 1, 2020

Mental Health within Trauma Surgery: A trauma informed approach to support both

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patients and residents and improve outpatient follow up

Source: Oregon Health & Science University Dean's Office

Amount: \$7,000

Role: Co-Investigator

PI: Heather Buxton MD

Time: July 2019 – July 2020

Sharing the Load: Identifying system inefficiencies that contribute to burnout in surgical trainees

Source: Oregon Health & Science University Dean's Office

Amount: \$4,500

Role: Co-Investigator

PI: Enjae Jung MD

Time: July 2018 – July 2019

A Higher Standard: Protecting the privacy of trainees in medical education research

Source: Oregon Health & Science University Dean's Office

Amount: \$2,857

Role: Primary Investigator

Time: July 2018 – July 2019

Development of an inguinal hernia simulator for medical students and interns

Source: Oregon Health & Science University Dean's Office

Amount: \$1,570

Role: Co-Investigator

PI: Laszlo Kiraly MD

Time: July 2013 – July 2014

National:

Completed

Title: Role of Notch1 in Valproic Acid Mediated Neuroendocrine Growth Suppression.

Source: Howard Hughes Medical Institute

Amount: \$39,000

Role: Howard Hughes Institute Research Fellow

PI: Herbert Chen MD

Time: July 2008 – July 2009

Peer Reviewed Publications: H-index July 2021: 15

1. Adler, J., **M. Cook**, S. Pitt, Y. Luo, J. Ju, W. Li, B. Shen, M. Kunnumalaiyaan and H. Chen. Tautomycetin and Tautomycin Suppress the Growth of Medullary Thyroid Cancer Cells via Inhibition of GSK-3 β . *Mol. Cancer* 2009 Apr;8(4):914-20. PMID: 19372564

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2. Chen, J., **M. Cook**, S. Pinchot, M. Kunnimalaiyaan and H. Chen. MG-132 Inhibits Carcinoid Growth and Alters the Neuroendocrine Phenotype. *J. Surg. Res.* 2010. Jan; 158(1): 15-9. PMID: 19765735
3. **Cook, M.**, J. Luo, M. Ndiaye, H. Chen and M. Kunnimalaiyaan. Xanthohumol Inhibits the Neuroendocrine Transcription Factor Achaete Scute Complex-Like 1, Suppresses Proliferation and Induces Phosphorylation of ERK1/2 in Medullary Thyroid Cancer. *Am. J. Surg.* 2010 Mar; 199(3):315-8. PMID: 20226902
4. **Cook, M.**, S. Pitt, S. Schaefer, R. Sippel and H. Chen. A Rising IoPTH Level Immediately After Parathyroid Resection: are Additional Hyperfunctioning Glands Always Present? *Ann. Surg.* 2010 Jun; 251(6):1127-30. PMID: 20485151
5. **Cook, M.**, S. Pinchot, R. Jaskula-Sztul, J. Luo, M. Kunnimalaiyaan and H. Chen. Identification of a Novel Raf-1 Pathway Activator That Inhibits Gastrointestinal Carcinoid Cell Growth. *Mol. Cancer Ther.* 2010 Feb; 9(2):429-37. PMID: 20103603
6. **Cook, M.**, X. Yu and H. Chen. Notch in the Development of Thyroid C-cells and the Treatment of Medullary Thyroid Cancer. *Am. J. Transl. Res.* 2(1);2010. PMID: 20182588
7. Pinchot S., R. Jaskula-Sztul, L. Ning, N. Peters, **M. Cook**, M. Kunnimalaiyaan and H. Chen. Identification and Validation of Notch Pathway Activating Compounds Through a Novel High-Throughput Screening Method. *Cancer* 2011 Apr 1; 117(7):1386-98. PMID: 21425138
8. Truong, M., **M. Cook**, J. Luo, S. Pinchot, M. Kunnimalaiyaan, H. Chen. Resveratrol Regulates the Notch 2 Mediated Phenotype in Medullary Thyroid Cancer. *Ann. Surg. Oncol.* 2011 May; 18(5):1506-11. PMID: 21184191
9. **Cook, M.**, D. Emick, C. Foley, A. Beatty, C. McCormick and M. Shapiro. Daily Temperature Predicts Assault and May Allow More Efficient Policing. *Am. Surg.* 2012. Apr; 78(4):E194-5. PMID: 22472368
10. Lee, T., J. Oullete, **M. Cook**, M. Schreiber and J. Kortbeek. Pericardiocentesis in Trauma: A Systematic Review. *J. Trauma Acute Care Surg.* 2013. Oct; 75(4):543-9. PMID: 24064864
11. **Cook, M.**, S. Louis, S. McCully, R. Stucke, S. Fabricant and M. Schreiber. Positive Blood Alcohol is Associated with Reduced DVT in Trauma. *Injury.* 2015. Jan; 46(1): 131-5. PMID: 25311264
12. **Cook M.**, M. Yoon, J. Hunter, K. Kwong and L. Kiraly. A Non-Metropolitan Surgery Clerkship Increases Interest in a Surgical Career. *Am J Surg.* 2015. Jan; 209(1): 21-5. PMID: 25454949

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13. **Cook M.**, M. Frost and S. Gordy. A Prevesicle Space Mass: Bladder Necrosis as a Complication of a Preperitoneal Hematoma. *Am. Surg.* 2015. Feb; 81(2):64-66. PMID: 25642859
14. McCully, S., D. Martin, **M. Cook**, N. Gordon, B. McCully, T. Lee, R. Dean, E. Rick, A. Moren, K. Fair, V. Perl, K. Watson and M. Schreiber. Effects of Ascorbic Acid Concentrations on Hemodynamics and Inflammation Following Lyophilized Plasma Transfusion. *J Trauma Acute Care Surg.* 2015. Jan; 79(1):30-8. PMID: 26091311
15. Mesar, T., D. Martin, R. Lawless, J. Podbielsi, **M. Cook**, S. Underwood, A. Larentzakis, B. Cotton, M. Schreiber, J. Holcomb, J. Marini, U. Sharma, A. Rago, D. King. Human Dose Confirmation for Self-Expanding Intra-Abdominal Foam: A Translational, Adaptive, Multcenter Trial in Recently Deceased Human Subjects. *J Trauma Acute Care Surg.* 2015 Jan; 79(1):39-47. PMID: 26091312
16. **Cook M.**, J. Watters, J. Barton, C. Kamin, S. Brown, K. Deveney and L. Kiraly. A Flexible Postoperative Debriefing can Effectively Provide Formative Resident Feedback. *J Am Coll Surg.* 2015. May; 220(5):959-67. PMID: 25907872
17. **Cook, M.**, K. Fair, J. Burg, L. Cattin, A. Gee, S. Arbab and M. Schreiber. Cirrhosis is Associated with Increased Mortality and Splenectomy Rates following Splenic Injury. *Am J Surg.* 2015. May; 209(5):841-7. PMID: 25769879
18. **Cook, M.**, J. Holcomb, M. Rahbar, E. Fox, L. Alarcon, E. Bulger, K. Brasel and M. Schreiber on behalf of the PROMMTT group. Hypotensive Trauma Patients with a Positive FAST Exam may Safely Undergo Abdominal CT During their Initial Trauma Evaluation. *Am J Surg.* 2015. May; 209(5):834-40. PMID: 25805456
19. Moren, A. **M. Cook**, M. McClain, J. Doberne, L. Kiraly, R. Perkins and K. Kwong. A Pilot Curriculum in International Surgery for Medical Students. *J Surg Educ.* 2015. Jul-Aug; 72(4):e9-e14. PMID: 26073480
20. **Cook, M.**, B. Howard, A. Yu, D. Grey, P. Hofmann, A. Essajee, O. Mndeme, M. Mcchembe, J. Peck and W. Schecter. A Consortium Approach to Surgical Education in a Developing Country. *JAMA Surg.* 2015. Aug. PMID: 26267612
21. **Cook, M.** and A. Graff- Baker, A. Moren, S. Brown, K. Fair, L. Kiraly, T. De La Melena, S. Pommier, K. Deveney. A Disease-Specific Hybrid Rotation Increases Opportunities for Deliberate Practice. *J Surg Educ.* 2016 Jan-Feb; 73(1):1-6. PMID: 26481268
22. Undurraga Perl, V. B. Leroux, **M. Cook**, K. Fair, D. Martin, J. Kerby, C. Williams, K. Inaba, C. Wade, B. Cotton, D. Del Junco, E. Fox, T. Scalea, B. Tilley, J. Holcomb, M. Schreiber. Damage Control Resuscitation and Emergency Laparotomy: Findings from the PROPPR Study. *J Trauma Acute Care Surg.* 2016 Apr; 80(4):569-75. PMID: 26808034

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23. Connelly, C., P. Kemp-Bohan, **M. Cook**, A. Moren, M. Schreiber, L. Kiraly. A Night Float Week in a Surgical Clerkship Improves Student Team Cohesion. *Am. J. Surg.* 2016. May;211(5):913-8. PMID: 26988619
24. **Cook, M** and S. Deal, J. Scott, A. Moren and L. Kiraly. Teaching Communication and Supporting Autonomy with a Team Based Operative Simulator. *Am J. Surg.* 2016. September;212(3):552-556. PMID: 27378354
25. **Cook, M.** C. Witt, R. Bonow. E. Bulger, K. Linna, S. Arbabi, B. Robinson and J. Cuschieri. A Cohort Study of Blunt Cerebrovascular Injury Screening in Children: Are They Just Little Adults? *J. Trauma Acute Care Surg.* 2018. Jan;84(1):50-57. PMID: 28640778
26. Graf, J., **M. Cook**, S. Schecter, K. Deveney, P. Jofmann, D. Grey, L. Akoko, A. Mwanga, K. Salum and W. Schecter. Coalition for Clinical Global Surgery Education: The Alliance for Global Clinical Training. *J Surg Educ.* 2018 May - Jun;75(3):688-696. doi: 10.1016/j.jsurg.2017.08.019. PubMed PMID: 28867584.
27. **Cook, M.**, J. Badulak, B. Coruh, L. Kiraly, D. Zonies, J. Cuschieri and E. Bulger. Fellowship Training in Extracorporeal Life Support: Characterization and Educational Needs Assessment. *J Crit. Care.* 2018. Aug;46:159-161. PMID: 29606413
28. N. Byrge, M. Heilbrun, N. Winkler, D. Sommers, H. Evans, L. Cattin, T. Scalea, D. Stein, T. Neideen, P. Walsh, C. Simms, T. Brahmbhatt, J. Galante, H. Phan, A. Malhotra, R. Stovall, J. Jurkovich, R. Coimbra, A. Brendtson, T. O'Callaghan, S. Gaspard, M. Schreiber, **M. Cook**, D. Demetriades, O. Rivera, G. Velmahos, T. Zhao, P. Park, D. Machado-Aranda, S. Ahmad, J. Lewis, W. Hoff, G. Suleiman, J. Sperry, S. Zolin, M. Carrick, G. Mallory, J. Nunez, A. Colonna, T. Enniss and R. Nirula. An AAST-MITC analysis of pancreatic trauma: staple or sew, resect or drain? *J Trauma Acute Care Surg.* 2018. Sep;85(3):435-443.. PMID: 29787527
29. **Cook, M.**, K. O'Connell, Q. Qiu, A. Riggle, T. Shoultz, R. Maine, S. Arbabi, G. O'Keefe, J. Cuschieri, R. Maier and B. Robinson. Duration of Respiratory Failure After Trauma is Not Associated with Increased Long Term Mortality. *Crit. Care Med.* 2018. Aug;46(8):1263-1268. PMID: 29742591
30. Deal, S., **M. Cook**, D. Hughes, M. Sarap, T. Hughes, K. Brasel and A. Alseidi. Training for a career in rural or non-metropolitan surgery – a practical needs assessment. *J Surg Educ.* 2018. Nov;75(6):e229-e233. PMID: 30100324
31. Hughes, D. **M. Cook**, S. Deal, T. Hughes, M. Sarap, K. Brasel and A. Alseidi. Rural Surgeons' Perspectives on Necessity of Post-Residency Training are Stable Across Generations. *Am. J. Surg.* 2019. Feb;217(2):296-300. PMID: 30528820

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32. Bonanno A., L. Kiraly, T. Siegel, K. Brasel and **M. Cook**. Surgical Palliative Care Training in General Surgery Residency: An Educational Needs Assessment. *Am J. Surg.* 2019. Jan 17. pii:S0002-9610(18)31475-2. PMID: 30678805
33. Hoops, H., C. Haley, **M. Cook**, O. Britantchouk, E. Dewey, K. Brasel, D. Spight and L. Kiraly. Factors Influencing Amount of Guidance in the Operating Room During Laparoscopic Cases. *Am J. Surg.* 2019. May;217(5):979-985 PMID: 30929750
34. **Cook**, M. D. Hughes, S. Deal, M. Sarap, T. Hughes, K. Deveney, K. Brasel and A. Alseidi. When Rural is No Longer Rural: Demand for Subspecialty Trained Surgeons Increases with Increasing Population of a Non-Metropolitan Area. *Am J Surg.* 2019 Jun 12;. PMID: 31227187
35. Crannell, W.C., C. Boes, K. Brasel and **M. Cook**. Evaluating the Educational Effectiveness of an 8-week Patient Management Course for Surgical Interns: a Nine-year Analysis. *Am J. Surg.* 2020. May, 219(5)800-803. PMID:32122659
36. Bonanno, A., **M. Cook**, K. Fair, E. Dewey and L. Kiraly. Confidentiality Concerns for Surgical Residents as Educational Research Subjects: A Pilot Study. *Am J. Surg.* 2020 Sep;220(3):630-633. PMID: 32033774
37. Schultz, K. K. Brasel, D. Zonies and **M. Cook**. Effective Palliative Care in the Trauma Setting. *Am Surg.* 2020 Nov;86(11):1441-1444. PMID: 33153269
38. Hunt, J. E. Herrera-Hernandez, K. Jazinski-Chambers, A. Brandolino, K. Maher, B. Jackson, R. Smith, D. Lape, **M. Cook**, K. Brasel, M. deMoya and T. deRoon-Cassini. Validation of the Injured Trauma Survivor Screen (ITSS): An AAST Multi-Institutional Trial. *J Trauma Acute Care Surg.* 2021 May 1. PMID: 33797497
39. Miranda, D, R. Maine, **M. Cook**, S. Brakenridge, L. Moldwater, S. Arbabi, G. O'Keefe, B. Robinson, E. Bulger, R. Maier and J. Cuschieri. Chronic Critical Illness After Hypothermia in Trauma Patients. *TSACO* 2021. Jul 29;6(1). PMID: 34423134
40. Edsall, A, S. Howard, E. Dewey, T. Siegel, D. Zonies, K. Brasel, **M. Cook** and A. Nagengast. Critical Decision in the Trauma Intensive Care Unit: Are We Practicing Primary Palliative Care? *JTACS* 2021. Nov 1;91(5):886-890. PMID: 34695065.
41. Chiang, E., C. Barton, J. Case, C. Sorenson, E. Dewey, **M. Cook** and M. Schreiber. Sedation and Analgesia needs in Methamphetamine Intoxicated Patients: Much Ado About Nothing. *Injury.* 2021. Nov1;S0020-1383(21)00893-7. PMID: 34802698
42. Schultz, K., S. Howard, K. Moreno, T. Siegel, D. Zonies, K. Brasel and **M. Cook**. Teaching Primary Palliative Care to General Surgical Residents: a Novel Pedagogical Approach Drawn From Multi-Disciplinary Focus Group Data. *Am. J. Surg.* 2022. Feb 5;S0002-9610(22)00060-5. PMID: 35151432
43. Shultz, K., S. Howard, T. Siegel, D. Zonies, K. Brasel, **M. Cook** and K. Moreno. Supporting Surgical Residents Learning Clinical Palliative Care: Insights from Multi-

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Disciplinary Focus Groups. *Am. J. Surg.* 2022 Feb 28;S0002-9610(22)00142-8. PMID: 35287936

44. Buxton, H. and M. Marr, A. Hernandez, J. Vijanderan, K. Brasel, **M. Cook** and A. Moreland. Peer-to-Peer Trauma-Informed Training for Surgical Residents Facilitated by Psychiatry Residents. *Acad Psychiatry.* 2022 May 17. PMID: 35579850

45. Schultz, K., S. Howard, K. Moreno, T. Siegel, D. Zonies, K. Brasel and M. Cook. What Should the Surgeon do at the Family Meeting? A Multi-Disciplinary Qualitative Description of Surgeon Participation in Palliative Care Discussions. *J Surg Educ.* 2023 Jan;80(1):110-118. PMID: 36089480

Non-Peer Reviewed Publications, Book Chapters and Peer Reviewed Online Publications

1. Mitchell, E., **M. Cook** and J. Boyd. (2015). Faculty Training and Development. In R. Aggarwal, J. Korndorffer & J. Cannon-Bowers (Eds.), ACS Principles and Practice for Simulation and Surgical Education Research (1 ed., Vol. 1, pp. 190-202). Chicago, IL: American College of Surgeons.
2. **Cook, M.** Goals of Care: Understanding the Outcomes that Matter Most. Practicing Primary Palliative Care. *Surg Clin North Am.* 2019. Oct;99(5):833-847. Ed. Pringl Miller
3. **Cook, M.** and C. Barton. Pain Management in the Unstable Trauma Patients. *Curr Trauma Rep.* 2020 Nov;6(4):154-160.
4. **Cook, M.**, D. Zonies and K. Brasel. Prioritizing Communication in the Provision of Palliative Care for the Trauma Patient. *Curr Trauma Rep.* 2020. Oct 29:1-11. PMID:33145148
5. **Cook, M.**, S. Brakenridge and Dr. Livingston. Abdominal Infections. Evidence Based Reviews in Critical Care. *In Press.*
6. Advanced Curriculum in General Surgery – Choledocholithiasis in a Pregnant Woman. American College of Surgeons, Expert reviewer.
7. **Cook, M.** SCORE School Decision Making Capacity. The SCORE Portal. www.surgicalcore.org. Published March 2022, Accessed March 2022.
8. **Cook, M.** SCORE School Withdrawing and Withholding Life-Sustaining Treatments. The SCORE Portal. www.surgicalcore.org. Published March 2022. Accessed March 2022.
9. Zonies, D., C. Agerstrand, E. August, **M. Cook**, B. Elliott, A. Labib and D. Yannopoulos. *Chapter 46: ECMO Transport* in Extracorporeal Life Support: The ELSO Red Book, 6th Edition. *In Press.*
10. Integrating Surgical Palliative Care into the Full Spectrum of Medical Education. Cook, M. K. Shultz, C. Crannell, K. Brasel and T. Siegel. *In Press at Am. Surg.*

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Invited Presentations

1. Department of Surgery Grand Rounds. Life After the Trauma Alert: the Hidden Long Term Morbidity and Mortality After Injury. Oregon Health & Science University. Portland, Oregon. September 24, 2018.
2. Oregon College of Emergency Physicians Annual Winter Conferences (36th). Trauma Resuscitation for the Non-Trauma Physician. Bend, Oregon. January 26, 2019.
3. Oregon College of Emergency Physicians Annual Winter Conferences (36th). Geriatric Trauma Patient. Bend, Oregon. January 26, 2019.
4. Department of Family Medicine Grand Rounds. Life After the Trauma Alert: the Hidden Long Term Morbidity and Mortality After Injury. Oregon Health & Science University. Portland, Oregon. February 12, 2019.
5. Annual Internal Medicine Review (26th). Life After the Trauma Alert: the Hidden Long Term Morbidity and Mortality After Injury. Continuing Professional Development - Oregon Health & Science University. Portland, Oregon. April 11, 2019.
6. Northwest States Trauma Conference (30th). Trauma Survivorship: Recidivism, Mental Health and Substance Abuse. Continuing Professional Development – Oregon Health & Science University. Sun River, Oregon. May 2, 2019.
7. Northwest States Trauma Conference (30th). Regional Disparities in Emergency General Surgery Care. Continuing Professional Development – Oregon Health & Science University. Sun River, Oregon. May 3, 2019.
8. Oregon College of Emergency Physicians Annual Winter Conference (37th). ECMO in the ED. Bend, Oregon. January 28, 2020.
9. Oregon College of Emergency Physicians Annual Winter Conference (37th). Controversies in Trauma. Bend, Oregon. January 28, 2020.
10. Department of Surgery Grand Rounds. Autonomy, Entrustment and Surgical Education. St. Vincent Medical Center. Portland, Oregon. February 6, 2020.
11. National SCORE Curriculum Virtual Lecture Series. Geriatrics, Palliative Care, End of Life. June 3, 2020.
12. Trauma Grand Rounds: Palliative Care in Trauma. University of Oklahoma. Oklahoma City, Oklahoma. August 13, 2020.
13. Department of Surgery Grand Rounds. Education M&M: A Novel Paradigm for Teaching Improvement. Oregon Health & Science University. Portland, Oregon. August 17, 2020.
14. Donald D. Trunkey Center for Combat and Civilian Casualty Care – Research Symposium, Invited Speaker. Trauma is a Chronic Disease...Because we Don't Treat It. September 30, 2020.

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15. Hospice and Palliative Medicine Grand Rounds: Palliative Care and Trauma: Best Friends Forever! University of South Carolina. Columbia, South Carolina. October 22, 2020.
16. Department of Surgery Grand Rounds. Education M&M: Teaching and Learning in the Virtual World. Oregon Health & Science University. Portland, Oregon. January 4, 2021.
17. Northwest States Trauma Conference (32nd). Patient Story. Continuing Professional Development - Oregon Health & Science University.
18. Department of Surgery Grand Rounds. Education M&M: The Struggling Learner / Teacher Dyad. Oregon Health & Science University. Portland, Oregon. August 9, 2021.
19. Oregon College of Emergency Physicians Annual Winter Conference (39th) "Stump the Surgeon" Sunriver, Oregon. January 31, 2022.
20. Trauma Center Association of America Webinar. Palliative Care for Trauma Patients...Every Patient, Every Time. February 16, 2022.
21. Northwest States Trauma Conference (33rd). What is Old is New Again...Rib Fractures in the Modern Era. Continuing Professional Development – Oregon Health & Science University. Sunriver, Oregon. April 28, 2022.
22. Northwest States Trauma Conference (33rd). ECMO for Severe Hypothermia – Teamwork! Continuing Professional Development – Oregon Health & Science University. Sunriver, Oregon. April 29, 2022.
23. Department of Surgery Grand Rounds. Education M&M: The Fracturing Team. Oregon Health & Science University. June 6, 2022.
24. Department of Surgery Grand Rounds. With Dr. Vahagn Nikolian and Dr. Heather Hoops. A Better Letter: Improving Your Letters of Recommendation. Oregon Health & Science University. August 1, 2022.
25. Northwest Regional Hospital Medicine Conference (17th). Three Common Issues in Surgical Patients. Continuing Professional Development – Oregon Health & Science University. Portland, Oregon. September 22, 2022.
26. Department of Surgery Grand Rounds. Surgical Palliative Care in the ICU: Doing it, Teaching it and Researching it. Oregon Health & Science University. Portland, Oregon. January 23, 2023.

Invited Faculty Positions in Courses / Conferences

1. Extra-Corporeal Life Support Organization (ELSO) – ECMO Cannulation Workshop. April 4-6, 2020. Atlanta, GA. Course Faculty. *Cancelled for COVID-19
2. Association for Surgical Education – Troubleshooting your Clerkship. April 27, 2020. Seattle, WA. Course Faculty. *Cancelled for COVID-19

Podcast / Webinars / Social Media

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1. Twitter - @MackenzieCookMD - focus: trauma, surgical education and palliative care
**NB: a “good” engagement rate is 1-3%, “excellent” is 3-5%.*
 - a. 1/1/2021 – 4/2/2021 Metrics: 42,200 impressions, 2% engagement rate
 - b. 4/3/2021 – 7/2/2021 Metrics: 55,800 impressions, 2.2% engagement rate
 - c. 7/3/2021 – 10/1/2021 Metrics: 92,500 impressions, 2.7% engagement rate
 - d. 10/2/2021 – 12/31/2021 Metrics: 186,600 impressions, 3.1% engagement rate
 - e. 1/1/2022 – 4/2/2022 Metrics: 103, 000 impressions, 3.0% engagement rate
 - f. 4/3/2022 – 7/3/2022 Metrics: 67, 400 impressions, 3.4% engagement rate

V. SERVICE

Membership in Professional Societies:

American College of Surgeons

2010 – 2017	Resident Member
2017 – 2021	Associate Fellow
2021 – Present	Fellow

Association for Surgical Education

2014 – Present	Member
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Eastern Association for the Surgery of Trauma

2016 – Present	Member
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American Association for the Surgery of Trauma

2019 – Present	Associate Member
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Chest Wall Injury Society

2021 – Present	Member
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Surgical Palliative Care Society

2022 – Present	Member
2022 – Present	Education Committee Co-Chair

Scholarly Journal Service

Publons Metrics 7/1/2019 – 7/1/2022: 60 reviews (96th percentile),

Journal of Surgical Research	Ad Hoc Reviewer 2009 - Present
Journal of Surgical Education	Ad Hoc Reviewer 2019 - Present
American Journal of Surgery	Ad Hoc Reviewer 2019 - Present
Journal of Graduate Medical Education	Ad Hoc Reviewer 2020 - Present

Committee Work:

Departmental

2018 – Present	Executive Education Committee, Department of Surgery
2018 – Present	Surgical Education Research Consortium

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2019 – Present Surgical Palliative Care Research Consortium
 2020 – Present Clinical Competency Committee, Surgical Critical Care Fellowship

Institutional

2018 – 2021 Undergraduate Medical Education Curriculum Committee
 2018 – Present Pediatric Trauma Improvement Committee – Adult Trauma Liaison
 2018 – Present Core Clinical Experience Directors Subcommittee

State

2022 - Present Oregon Health Authority, State Trauma Advisory Board Member
 2022 - Present Oregon Health Authority, Area Trauma Advisory Board 1, Member
 2023 - Present Vice Chair

National

2019 – Present AAST Palliative Care Committee, Education Sub-committee
 2020 – Present American Board of Surgery – EPA Best Practice Working Group
 2022 – Present American College of Surgeon – ATLS 11th edition revision team
 2022 – Present Surgical Palliative Care Society – Education Committee Co-Chair

VI. TEACHING – Please See Educator’s Portfolio for Complete Details

Resident Scholarly Mentorship

2019 – 2021	Nicholas Hall MD: OHSU SOM Research Capstone Project – PTSD Educational Needs Assessment
2019 – 2020	Shannon Howard MD: Surgical Palliative Care, Needs Assessment
2020 – 2021	Kristen Schultz MD: Surgical Palliative Care, Curriculum Development
2020 – Present	Emily Weinstein: OHSU SOM Research Capstone Project – Predicting Delayed Mortality after Injury
2020 – Present	Marija Jozic: OHSU SOM Research Capstone Project – Developing a Palliative Care Curriculum for Medical Students
2020 – Present	Rachel Ye: OHSU SOM Research Capstone Project – Easing the ICU to Ward Transition for Adult Survivors of Critical Illness
2021 – Present	Nellie Trenga-Schein: OHSU SOM Palliative Care Focused Research Year

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Educational Excellence Awards

2013 Howard P. Lewis Award: Outstanding Teaching by a Senior Resident
 Voted by the OHSU School of Medicine Graduating Class of 2013

2015 American Colleges of Surgeons - Resident Award for Exemplary
 Teaching, national top ten finalist

2016 Roger Albert MD Award for Outstanding Teaching by a Resident
 OHSU Department of Surgery

2019 Bronze CME Educator Award – OHSU
 Dedicated efforts to the continuing education of health professionals.

2020 Mentor Flame Award
 Exceptional commitment exemplifying the OHSU vision of service
 Voted by the OHSU All-Hill Student Council 2019/2020

2021 Faculty Hooder for School of Medicine Class of 2021
 Selected as one of six faculty hooders by the OHSU School of
 Medicine Graduating Class of 2021

2021 Outstanding Leader in Clinical Experience Phase
 Voted by the OHSU School of Medicine Graduating Class of 2021

2021 David W.E. Baird Award for Excellence in Education by a Junior Faculty
 Voted by the OHSU School of Medicine Graduating Class of 2021

2022 Outstanding Leader in the Clinical Experiences Phase
 Voted by the OHSU School of Medicine Graduating Class of 2022

2022 Excellence in Teaching in the Clinical Experiences Phase
 One of two awardees selected by the OHSU School of Medicine
 Graduating Class of 2022

2022 Edward J. Keenan Faculty Speaker – Commencement 2022
 Selected by the OHSU School of Medicine Graduating Class of 2022

2022 “Top Five” Educators in the OHSU Department of Surgery
 As determined by resident evaluations from AY 21-22

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Clinical Excellence Awards

2019 Golden Rose Award for Outstanding Team Service in conjunction with
 Dr. Albert Chi